

# SMART CITY INFRASTRUCTURE WITH PETERBOROUGH CITY COUNCIL AND THE PIRI PROJECT

## TALKING POINTS

### KNOWLEDGE:

1. What are the three strands of the PIRI project and what is each aiming to achieve?

### COMPREHENSION:

2. How is Peterborough City Council aiming to develop its use of the Peterborough Energy Recovery Facility (PERF)?
3. What are the benefits of creating an energy system that meets demand and balances supply?

### APPLICATION:

4. How will the people of Peterborough benefit from the PIRI project?
5. How might the PIRI project benefit other towns and cities?
6. How does Elliot apply his skills as a lawyer to his work on the PIRI project?
7. Sam highlights maths as being key to solving real-world engineering problems. What have you been studying in your maths lessons recently? How could these topics be applied to real-life issues?

### ANALYSIS:

8. What are some of the professional challenges the team highlights? Which challenges would you find particularly difficult and how do you think you would overcome them?
9. What motivates the individuals working on the PIRI project? What rewards does their work provide them with?

### EVALUATION:

10. The PIRI project clearly benefits from collaboration between different fields of expertise; Tanja says working with a range of people is a highlight for her. How good are you at collaborating on projects? When did you last work as a team? How could you develop your team-working and communication skills further?
11. Which of the team's top tips are most useful for you and why?

## ACTIVITIES YOU CAN DO AT HOME OR IN THE CLASSROOM

The PIRI project highlights how important collaboration is for researchers and professionals in a range of fields to find real-life solutions to many of the issues facing society today.

- Claire says the innovation of the PIRI project came from, “essentially a blank piece of paper”! So, grab yourself a piece of paper and spend 15 minutes jotting down any ideas you can about how to make your town or school ‘smarter’.
- If you can, note down your ideas under the three branches of electricity, mobility and heat. At this stage, do not worry about being unrealistic or overly ambitious – be imaginative.
- Now, you need a team. Join up with at least three of your peers and compare ideas.
  - Are any of your ideas similar?
  - Which ideas are you all most enthusiastic about?
  - Which would really make a difference if you could make it happen?
- Select your three best ideas. Think very carefully as a group:
  - What resources would you need to implement these ideas?
  - What expertise would you need?
  - What would be the order of how you would move forward?
  - What timescale do you think you would need to follow?
- Create a presentation or video to introduce stakeholders (such as your headteacher, the school council and members of the local authority) to your project and to set out your plan.
- Projects like this demand drive and determination, so be optimistic and conclude your talk/video with the benefits your project will provide for your school/town.

## MORE RESOURCES

Find out more about the courses available at Cranfield University, where Phil is based:  
[www.cranfield.ac.uk/centres/centre-for-climate-and-environmental-protection](http://www.cranfield.ac.uk/centres/centre-for-climate-and-environmental-protection)

Visit SSE Energy Solutions' 'News and Insights' page for the latest developments in zero-carbon energy solutions:  
[www.sseenergysolutions.co.uk/news-and-insights](http://www.sseenergysolutions.co.uk/news-and-insights)